## MATERIAL SAFETY DATA SHEET

HILL BROTHERS CHEMICAL COMPANY 15017 E. Clark Ave., City of Industry, California 91745 / (213) 333-2251

SECTION I	UN No. 1005	
	MOLECULAR WEIGHT:	
FORMUL	A: NH <sub>2</sub>	
		MOLECULAR WEIGHT:

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV	DOUS INGREDIENTS  ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PANTS, PRESERVATIVES, & SOCYETTO	/ (Uni	(Units)			(Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES					TVL (Units)
Ammonia 1				100	25ppn

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-28	SPECIFIC GRAVITY (H20=1) @-33°F	0.6819
	PERCENT, VOLATILE BY VOLUME (%)	100
ighter	EVAPORATION RATE (-Ether =1)	Faster
omplete	•	
	ighter omplete	PERCENT, VOLATILE BY VOLUME (%)  EVAPORATION RATE (Ether=1)

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SECTION IV - FIRE AND EXP	LOSION HAZARD DATA		
FLASH POINT (Method used)	FLAMMABLE LIMITS	Lel	Uel
Auto ignition 1204°F			
Should fire occur, use fine water spray	or water fog to exti	nguish.	
SPECIAL FIRE FIGHTING PROCEDURES Water spray removes NH <sub>3</sub> from atmosphere	thus fuel for fire is	s removed	from air.
DOT Flammability Classification: Non-flam	mmable Gas		
UNUSUAL FIRE AND EXPLOSION HAZARDS			
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## SECTION V - HEALTH HALARD DATA

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Threshold Limit Value 25 ppm (ammonia vapor) or 18 mg/M <sup>3</sup>
Effects of overexposure: Irritation of eyes, respiratory tract, lung inflammation
Lung damage.
Emergency & First Aid Procedures: INGESTIONDO NOT induce vomiting, seek immediat
advice and/or attention. INHALATION Remove to fresh air, apply artificial res-
piration, get medical attention. SKIN CONTACT Flush with large quantities of
water & seek medical attention if irritation from contact persists.

			SEC	TION VI - F	REACTIVITY DATA
STABILITY UNSTABLE			CONDITIO	NS TO AVOID	
	STA	STABLE		Heat	, sparks, open flame & fire
INCOMPATIBILITY	(Mater	ials to avoid)	Stron	g oxidiz	ing agents
HAZARDOUS DEC	OMPOS	ITION PRODU	CTS		
HAZARDOUS POLYMERIZATION		MAY OCCU	R		CONDITIONS TO AVOID
		WILL NOT OCCUR		χ	

SECTION VII - SPILL OR LEAK PROCEDURES
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Flush spilled material into suitable retaining areas or container with large quantities of water.
HIGHWAY OR RAILWAY SPILLS: Call Chemtrec (800) 424-9300
WASTE DISPOSAL METHOD
DISPOSAL MUST CONFORM TO ALL LOCAL, STATE AND FEDERAL LAWS

	SECTION VIII - SPECIAL PROTECTION INFOR	MATION		
RESPIRATORY PRO	TECTION (Specify type)	t-ations are above the TIV		
Use self-cont	ained breathing apparatus when vapor conc	entrations are above the itv.		
VENTILATION	LOCAL EXHAUST	SPECIAL		
keep NH3	If required			
below 25 ppm	MECHANICAL (General)	OTHER		
below 25 ppm	As required to maintain below TLV			
PROTECTIVE GLOVE	EVE PROTECTION			
Use impermeab	le gloves \$afety glasse:	s, chemical goggles or face sh		
OTHER PROTECTIVE				
	Impermeable apron			
	Impermeante apron			

SECTION IX - SPECIAL PRECAUTIONS					
PRECAUSTIONS TO BE TAKEN IN HANDLING AND STORING Keep product containers cool and away from sources of ignition.					
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OTHER PRECAUSTIONS Avoid inhaling vapors and skin contact.					

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.

Vendor assumes no responsibility for injury to vendee or third persons proximately caused by material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.

Revised: 3/1/84